

# SP<sup>TM</sup> Subcompact 18 Subwoofer

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### Loudspeaker System Specifications

**Frequency Response, 1 meter on-axis, swept-sine in anechoic environment:**

47 Hz - 190 Hz,  $\pm 3$  dB

**Low Frequency Cut-off (-3 dB point):**

47 Hz

**Usable Low Frequency Limit (-10 dB point):**

39 Hz

#### Power Handling:

350 W continuous (52.9 V RMS)  
700 W program  
1,400 W peak

**Sound Pressure Level, 2.8 V (1 Watt), 1 meter in anechoic environment:**

99 dB SPL

**Maximum Sound Pressure Level (1 meter):**

122 dB

#### Transducer Complement:

One 1801-8 Black Widow<sup>®</sup> 18" woofer with Kevlar<sup>®</sup> impregnated cone

#### Tuning Frequency (Fbox):

35 and 92 Hz

#### Impedance (Nominal):

8  $\Omega$

#### Impedance (Minimum):

6.7  $\Omega$

#### Input Connections:

Two parallel 1/4" female connectors, one full range input, one full range satellite output



#### Enclosure Materials and Finish:

High density, 7-ply, 3/4" plywood covered with heavy-duty black carpet, reinforced with black corners. Vents are protected by black metal grilles.

#### Mounting Provisions:

Four rubber feet for floor use

#### Dimensions (H x W x D):

23.75" x 28" x 23.75"  
60.33 cm x 71.12 cm x 60.32 cm

#### Net Weight:

109 lbs. (49.44 kg)

#### Additional Remarks:

When used with biampification, a crossover frequency of 200 Hz or lower is recommended.

#### DESCRIPTION

The SP<sup>TM</sup> Subcompact 18 is a small, lightweight add-on subwoofer designed to make it easy to add more low end to the

SP<sup>TM</sup> Series or other full-range speaker systems. Other uses include bass guitar and drum monitoring.

The enclosure is constructed of 7-ply 3/4" high density plywood covered with a heavy-duty black carpet and reinforced with corners. Black metal grilles cover the vent openings. A recessed handle on either side eases carrying. This low-frequency enclosure is comprised of an 18" Black Widow woofer with a Kevlar impregnated cone mounted in a dual resonant chamber configuration, providing high output at low distortion by controlling speaker excursion and acoustically filtering out high frequencies.

The SP<sup>TM</sup> Subcompact 18 now features a stand adapter which allows any SP Series enclosure to be used on a (Peavey part number 00326540) pole. Top cabinet weight should not exceed 100 lbs. Pole length should not exceed 36" for other applications.



**PEAVEY**

## FREQUENCY RESPONSE

This measurement is useful in determining how accurately a given enclosure reproduces an input signal. The frequency response of the SP™ Subcompact 18 is measured at 1 meter using a 2.82 volt swept-sine input. As shown in Figure 1, the selected driver in the SP™ Subcompact 18 gives a smooth frequency response from 47 Hz to 190 Hz.

## POWER HANDLING

There are many different approaches to power handling ratings. Peavey Electronics rates this unit's system power handling using a modified form of the AES Standard 2-1984. Utilizing audio band limited (20 Hz - 20 kHz) pink noise with peaks over four times the RMS level. This strenuous test signal assures the user that every portion of this system can withstand today's high technology music. The test

signal contains large amounts of very low frequency energy, effectively simulating the frequency content of live music situations. The full measure of high frequencies in the test signal allows for exposure of the speaker system to synthesized tones that may extend beyond audibility. This rating is contingent on having a minimum of 3 dB of amplifier headroom available to ensure that clipping does not occur.

## MOUNTING

**Caution:** The SP™ Subcompact 18 is not designed to be suspended overhead.

## ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The loudspeaker system shall have an operating bandwidth of 47 Hz to 190 Hz. The nominal output level shall be 99 dB when measured at a distance of one meter with an input of one watt.

The nominal impedance shall be 8 ohms. The maximum continuous power handling shall be 350 watts, maximum program power of 700 watts and a peak power input of at least 1,400 watts, with a minimum amplifier headroom of 3 dB. The nominal radiation geometry shall be 180 degrees in the horizontal plane and 180 degrees in the vertical plane. The outside dimensions shall be 28 inches high by 23.75 inches wide by 23.75 inches deep. The weight shall be 109 pounds. The loudspeaker system shall be a Peavey model SP™ Subcompact 18.

## THREE PLUS TWO YEARS LIMITED WARRANTY

**NOTE:** For details, refer to the warranty statement. Copies of this statement may be obtained by contacting Peavey Electronics Corporation, P.O. Box 2898, Meridian, Mississippi 39302-2898.

Amplitude Response (1W 1m On-Axis)

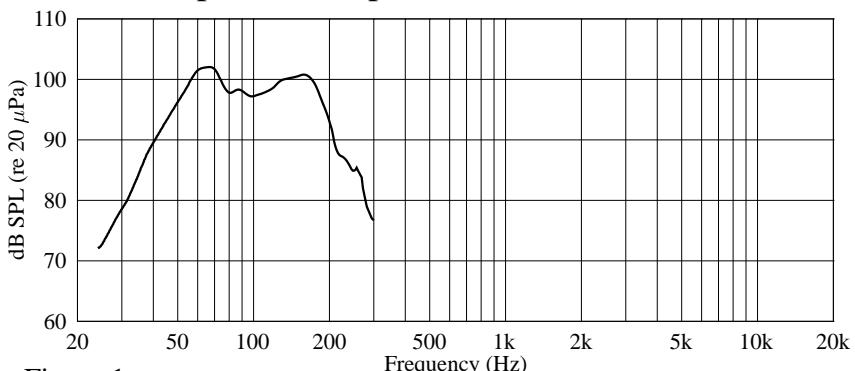


Figure 1

Impedance

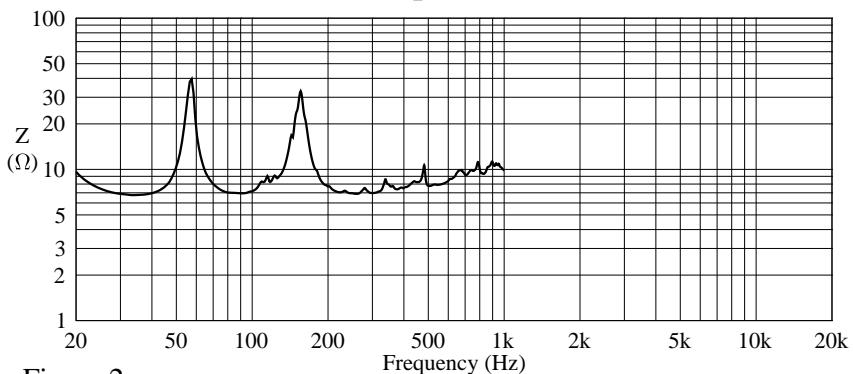


Figure 2



**PEAVEY**

Features and specifications subject to change without notice.

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